

Product Information

Print Date: Feb 28th 2017 **WWW.tocris.com**

Product Name: Calcein AM Catalog No.: 5119 Batch No.: 1

IUPAC Name: N,N-[[3',6'-Bis(acetyloxy)-oxospiro[isobenzofuran-1-(3H),9'-(9H)xanthene]-4',5'-diyl]bis(methylene)]bis[N-[2-

(acetyloxy)methoxy]-2-oxoethyl]glycine 1,1'-bis[(acetyloxy)methyl] ester

Description:

Cell permeable, non fluorescent compound; hydrolyzed by intracellular esterases to become fluorescent calcein in living cells. Used for monitoring cell viability, chemotaxis, cell adhesion and multidrug resistance.

Physical and Chemical Properties:

Batch Molecular Formula: C₄₆H₄₆N₂O₂₃ Batch Molecular Weight: 994.86 Physical Appearance: White solid

Minimum Purity: >95%

Batch Molecular Structure:

Storage: Store at -20°C

CAUTION - This product is light sensitive and we recommend that the solid material and any solutions obtained are protected from exposure to light.

Solubility & Usage Info:

DMSO to 100 mM

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

References:

Kuehn et al (2011) Prostaglandin E2 activates and utilizes mTORC2 as a central signaling locus for the regulation of mast cell chemotaxis and mediator release. J.Biol.Chem. **286** 391. PMID: 20980255.

Lazarowski et al (1997) Direct demonstration of mechanically induced release of cellular UTP and its implication for uridine nucleotide receptor activation. J.Biol.Chem. 272 24328. PMID: 9305892.

Bakos et al (1996) Membrane topology and glycosylation of the human multidrug resistance-associated protein. J.Biol.Chem. 271 12322. PMID: 8647833.

De Gendt et al (1996) The use of calcein acetomethylester (AM)-labelled polymorphonuclear cells in a polycarbonate filter chemotaxis assay. Clin.Chim.Acta. **249** 189. PMID: 8737602.

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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